Supplementary Online Content

- Perlis RH, Simonson MD, Green J, et al. Prevalence of firearm ownership among individuals with major depressive symptoms. *JAMA Netw Open.* 2022;5(3):e223245. doi:10.1001/jamanetworkopen.2022.3245
- **eTable 1.** Multiple Logistic Regression Model Examining Association of Presence or Absence of Moderate Depressive Symptoms and Sociodemographic Features With Current Firearm Ownership
- **eTable 2.** Multiple Logistic Regression Model Examining Association of Presence or Absence of Moderate Depressive Symptoms and Sociodemographic Features With Initial Firearm Purchase During the COVID-19 Pandemic
- **eTable 3.** Multiple Logistic Regression Model Examining Association of Presence or Absence of Moderate Depressive Symptoms and Sociodemographic Features With Initial Firearm Purchase During the COVID-19 Pandemic, Including Interactions With Major Depressive Disorder
- **eTable 4.** Multiple Logistic Regression Model Examining Association of Presence or Absence of Moderate Depressive Symptoms and Sociodemographic Features With Intention to Purchase a Firearm in the Near Future
- **eFigure 1.** Proportion by State of Households Owning Guns in 2016 Rand Data, Compared to Proportion of Respondents Who Report Owning Guns in April 2021 covidstates.org survey
- **eFigure 2.** Ratio by State of Firearm Background Checks to Adults 18 and Older, Compared to Proportion of Respondents Who Report Any Gun Purchase in 2 Years Prior to April 2021 covidstates.org survey
- **eFigure 3.** Sociodemographic Features Associated With Firearm Ownership Among Individuals With Moderate or Greater Depressive Symptoms and Suicidality
- **eFigure 4.** Sociodemographic Features Associated With Firearm Ownership Among Individuals With Moderate or Greater Depressive Symptoms and Suicidality

This supplementary material has been provided by the authors to give readers additional information about their work.

Supplemental Materials

eTable 1. Multiple logistic regression model examining association of presence or absence of moderate depressive symptoms and sociodemographic features with current firearm ownership

	OR	[95%	CI]	p-value
Moderate depression	1.0738	0.9851	1.1705	0.1054
Age (years)	1.0024	0.9999	1.0048	0.0559
Gender (female)	0.8518	0.7903	0.918	<.0001
Ethnicity (Hispanic)	0.6256	0.5424	0.7215	<.0001
Race (Black)	0.8646	0.7601	0.9834	0.0268
Race (Asian)	0.5174	0.4302	0.6222	<.0001
Race (Other)	0.8254	0.6455	1.0554	0.1261
Education (Some college or greater)	0.8495	0.7818	0.9229	0.0001
Employed	1.1158	1.0258	1.2137	0.0107
Income (per \$10k)	1.0582	1.0499	1.0666	<.0001
Region (Northeast vs Midwest)	0.5246	0.4651	0.5918	<.0001
Region (South vs Midwest)	1.2243	1.1181	1.3406	<.0001
Region (West vs Midwest)	1.0897	0.9815	1.2097	0.1074
Suburban vs Rural	0.6907	0.6248	0.7636	<.0001
Urban vs Rural	0.5725	0.5081	0.6451	<.0001
Ideology	1.079	1.0491	1.1098	<.0001
Party (Democrat vs Republican)	0.5204	0.465	0.5823	<.0001
Party (Independent vs Republican)	0.6856	0.6209	0.757	<.0001

eTable 2. Multiple logistic regression model examining association of presence or absence of moderate depressive symptoms and sociodemographic features with initial firearm purchase during the COVID-19 pandemic

	OR	[95%	CI]	p-value
Moderate depression	1.7734	1.5547	2.0229	<.0001
Age (years)	0.9813	0.9772	0.9855	<.0001
Gender (female)	0.834	0.7333	0.9486	0.0057
Ethnicity (Hispanic)	0.7024	0.5511	0.8952	0.0043
Race (Black)	0.9527	0.7657	1.1854	0.6637
Race (Asian)	0.5367	0.384	0.75	0.0003
Race (Other)	1.1024	0.7731	1.572	0.5902
Education (Some college or greater)	0.9463	0.8146	1.0993	0.4703
Employed	1.479	1.2697	1.7229	<.0001
Income (per \$10k)	1.0557	1.0426	1.069	<.0001
Region (Northeast vs Midwest)	0.6371	0.5132	0.791	<.0001
Region (South vs Midwest)	1.1964	1.0194	1.4042	0.0281
Region (West vs Midwest)	1.0049	0.8395	1.2028	0.9576
Suburban vs Rural	0.6718	0.5662	0.797	<.0001
Urban vs Rural	0.6546	0.5332	0.8036	0.0001
Ideology	1.05	0.9995	1.1031	0.0524
Party (Democrat vs Republican)	0.5317	0.4419	0.6398	<.0001
Party (Independent vs Republican)	0.5517	0.4638	0.6563	<.0001

eTable 3. Multiple logistic regression model examining association of presence or absence of moderate depressive symptoms and sociodemographic features with initial firearm purchase during the COVID-19 pandemic, including interactions with major depressive disorder

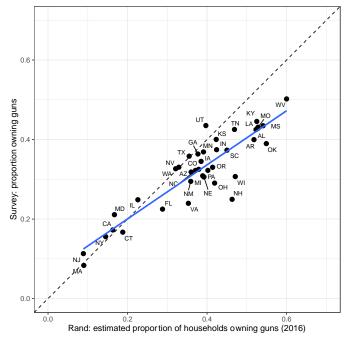
	OR	[95% CI]	p-value
Moderate depression	2.4289	1.4329	4.1174	0.001
Age (years)	1.0052	1.0023	1.0081	0.0004
Gender (female)	0.8805	0.8079	0.9595	0.0037
Ethnicity (Hispanic)	0.6931	0.5827	0.8245	<.0001
Race (Black)	0.9321	0.8014	1.0842	0.3619
Race (Asian)	0.503	0.4037	0.6269	<.0001
Race (Other)	0.8827	0.6426	1.2125	0.4412
Education (Some college or greater)	0.844	0.7684	0.9269	0.0004
Employed	1.1656	1.0552	1.2877	0.0026
Income (per \$10k)	1.0545	1.0451	1.0639	<.0001
Region (Northeast vs Midwest)	0.4696	0.4085	0.5397	<.0001
Region (South vs Midwest)	1.1553	1.0397	1.2838	0.0073
Region (West vs Midwest)	1.0777	0.9547	1.2167	0.2263
Suburban vs Rural	0.6927	0.6158	0.7792	<.0001
Urban vs Rural	0.5545	0.4822	0.6377	<.0001
Ideology	1.1153	1.0785	1.1533	<.0001
Party (Democrat vs Republican)	0.5173	0.4533	0.5903	<.0001
Party (Independent vs Republican)	0.7192	0.6422	0.8054	<.0001
Interaction of moderate depression with				
Age (years)	0.9884	0.9826	0.9942	0.0001
Gender (female)	0.915	0.7669	1.0916	0.3237
Ethnicity (Hispanic)	0.7256	0.5351	0.9839	0.039
Race (Black)	0.7769	0.5806	1.0394	0.0892
Race (Asian)	1.0434	0.6986	1.5584	0.8357
Race (Other)	0.7958	0.4834	1.31	0.3691
Education (Some college or greater)	1.0643	0.8714	1.3	0.5413
Employed	0.8883	0.7341	1.0748	0.223
Income (per \$10k)	1.0082	0.9896	1.0271	0.3898
Region (Northeast)	1.5553	1.1782	2.0532	0.0018
Region (South)	1.2506	1.0162	1.5391	0.0347
Region (West)	1.0675	0.8387	1.3586	0.5957
Suburban vs Rural	0.9793	0.7793	1.2306	0.8574
Urban vs Rural	1.0992	0.8379	1.4419	0.4946

Ideology	0.9098	0.8557	0.9673	0.0025
Party (Democrat vs Republican)	1.0549	0.8181	1.3603	0.6801
Party (Independent vs Republican)	0.8816	0.6968	1.1153	0.2935
* indicate interactions with p<0.05/17 (~0.003)				

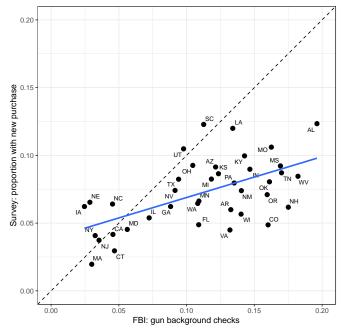
eTable 4. Multiple logistic regression model examining association of presence or absence of moderate depressive symptoms and sociodemographic features with intention to purchase a firearm in the near future

	OR	[95%	CI]	p-value
Moderate depression	1.5277	1.2278	1.9009	0.0001
Age (years)	0.9833	0.9766	0.9901	<.0001
Gender (female)	0.7115	0.5813	0.8709	0.001
Ethnicity (Hispanic)	0.9408	0.6866	1.2889	0.7039
Race (Black)	1.6191	1.2378	2.1178	0.0004
Race (Asian)	0.7009	0.4602	1.0677	0.098
Race (Other)	1.419	0.7838	2.5689	0.2479
Education (Some college or greater)	0.6822	0.5432	0.8568	0.001
Employed	1.7484	1.3811	2.2133	<.0001
Income (per \$10k)	1.0194	0.997	1.0424	0.0905
Region (Northeast vs Midwest)	1.1384	0.8173	1.5855	0.4433
Region (South vs Midwest)	1.4897	1.1393	1.9478	0.0036
Region (West vs Midwest)	1.3317	0.9885	1.794	0.0597
Suburban vs Rural	0.8028	0.5961	1.0812	0.1482
Urban vs Rural	0.9262	0.6691	1.2821	0.6439
Ideology	1.1588	1.0777	1.246	0.0001
Party (Democrat vs Republican)	0.8088	0.5982	1.0935	0.1679
Party (Independent vs Republican)	0.7387	0.549	0.9939	0.0455

Figures eFigure 1.Proportion by state of households owning guns in 2016 Rand data, compared to proportion of respondents who report owning guns in April 2021 covidstates.org survey



eFigure 2.Ratio by state of firearm background checks to adults 18 and older, compared to proportion of respondents who report any gun purchase in 2 years prior to April 2021 covidstates.org survey



 $eFigure \ 3.$ Sociodemographic features associated with firearm ownership among individuals with moderate or greater depressive symptoms and suicidality

Variable		N	Odds ratio		p
Age		4241	i i	0.99 (0.99, 1.00)	0.076
Gender	Male	1763	•	Reference	
	Female	2478	 ¦	0.77 (0.64, 0.94)	0.009
Education (some college)	FALSE	2545	•	Reference	
	TRUE	1696	⊢	0.80 (0.64, 1.02)	0.072
Race	White	2925	•	Reference	
	Hispanic	416	 ■	0.50 (0.37, 0.68)	< 0.001
	Black	462		0.72 (0.53, 0.97)	0.033
	Asian	290		0.44 (0.30, 0.66)	< 0.001
	Other	148	- ■ 1 1	0.72 (0.44, 1.19)	0.202
Region	Midwest	938	•	Reference	
	Northeast	664		0.73 (0.54, 0.98)	0.037
	South	1637	— ■ —	1.48 (1.18, 1.85)	<0.001
	West	1002	-	1.04 (0.80, 1.35)	0.772
Employed	FALSE	1595	į.	Reference	
	TRUE	2646	! ■ 	1.22 (0.99, 1.51)	0.066
Income		4241	;=	1.05 (1.03, 1.07)	< 0.001
Ideology (liberal->conservative)		4241		0.97 (0.91, 1.03)	0.285
Political party	Republican	743	•	Reference	
	Democrat	2058		0.57 (0.43, 0.74)	<0.001
	Independent	1440	──	0.63 (0.48, 0.83)	< 0.001
Setting	Rural	609	Ė	Reference	
	Suburban	2304	⊢-≡	0.63 (0.49, 0.82)	< 0.001
	Urban	1328	·	0.69 (0.52, 0.93)	0.013

eFigure 4. Sociodemographic features associated with firearm ownership among individuals with moderate or greater depressive symptoms and suicidality

Variable		N	Odds ratio		р
Age		1144	•	1.00 (0.99, 1.02)	0.601
Gender	Male	422		Reference	
	Female	722	⊢	0.86 (0.58, 1.28)	0.454
Education (some college)	FALSE	743	•	Reference	
	TRUE	401	 ■-	0.73 (0.45, 1.19)	0.206
Race	White	712	Ė	Reference	
	Hispanic	136		1.05 (0.57, 1.94)	0.867
	Black	146	; ⊢= →	2.35 (1.33, 4.13)	0.003
	Asian	105		0.62 (0.29, 1.32)	0.215
	Other	45	<u> </u>	0.70 (0.24, 1.97)	0.495
Region	Midwest	261	•	Reference	
	Northeast	188	<u> </u>	1.19 (0.66, 2.15)	0.572
	South	389	¦— ≡ —	1.80 (1.07, 3.05)	0.028
	West	306	- -	1.30 (0.73, 2.34)	0.373
Employed	FALSE	467	•	Reference	
	TRUE	677	. ⊢■→	2.38 (1.50, 3.76)	<0.001
Income		1144	į.	1.05 (1.00, 1.09)	0.031
Ideology (liberal->conservative)		1144	+	1.07 (0.94, 1.21)	0.307
Political party	Republican	145	•	Reference	
	Democrat	538	─ ■	0.74 (0.41, 1.35)	0.327
	Independent	461	⊢ ■	0.74 (0.40, 1.38)	0.349
Setting	Rural	180	÷	Reference	
	Suburban	629	-	1.00 (0.54, 1.85)	0.997
	Urban	335	— 	1.18 (0.61, 2.29)	0.631